

5'	GGAGC	TCC	GAG	TGT	CCA	CAG	GAA	GGG	AAC	TAT	CAG	CTC	CTG	GCA	TCT	GTA	AGG	ATG	56
																			M

FIGURE 1A

335	ACC	CTG	GTG	GCC	AGC	GTG	CAC	GAG	AAT	GAC	ATG	CAT	GGG	AAG	TGC	ACG	GTG	GGT
---	T	L	V	A	S	V	H	E	N	D	M	H	G	K	C	T	V	G
338	GAT	CGC	TGG	TCC	AGT	CAG	CAG	GCC	AAC	AAA	GCA	GAC	TAC	CCA	GAG	GGG	GAT	GGC
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
341	D	R	W	S	S	Q	Q	G	N	K	A	D	Y	P	E	G	D	G
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
344	AAC	TGG	GCC	AAC	TAC	AAC	ACC	TTT	GGA	TCT	GCA	GAG	GCG	GCC	ACG	AGC	GAT	GAC
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
347	N	W	A	N	Y	N	T	F	G	S	A	E	A	A	T	S	D	D
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
350	TAC	AAG	AAC	CCT	GSC	TAC	TAC	GAC	ATC	CAG	GCC	AAG	GAC	CTG	GGC	ATC	TGG	CAT
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
353	Y	K	N	P	G	Y	Y	D	I	Q	A	K	D	L	G	I	W	H
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
356	GTG	CCC	AAC	AAG	TCC	CCC	ATG	CAG	CAT	TGG	AGA	AAC	AGC	GCC	CTG	CTG	AGG	TAC
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
359	V	P	N	K	S	P	M	Q	H	W	R	N	S	A	L	L	R	Y
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
362	CGC	ACC	AAC	ACT	GSC	TTT	CTC	CAG	AGA	CTG	GGA	CAT	AAT	CTG	TTT	GGC	ATC	TAC
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
365	R	T	N	T	G	F	L	Q	R	L	G	H	N	L	F	G	I	Y

FIGURE 1B

659	668	677	686	695	704
CAG AAA TAC CCA GTG AAA TAC AGA TCA GGG AAA TGT TGG AAT GAC AAT GGC CCA					
Q K Y P V K Y R S G K C W N D N G P					
713	722	731	740	749	758
GCC ATA CCT GTG GTC TAT GAC TTT GGT GAT GCT AAG AAG ACT GCA TCT TAT TAC					
A I P V V Y D F G D A K K T A S Y Y					
767	776	785	794	803	812
TCA CCG TAT GGT CAA CGG GAA TTT GTT GCA GGA TTC GAT CAG TTC CGG GTG TTT					
S P Y G Q R E F V A G F V Q F R V F					
821	830	839	848	857	866
AAT AAC GAG AGA GCA GCC AAC GCC CTT TGT GCT GGG ATA AAA GTT ACT GGC TGT					
N N E R A A N A L C A G I K V T G C					
875	884	893	902	911	920
AAC ACT GAG CAT CAC TGC ATC GGT GGA GGA GGG TTC CCA CAG GGC AAA CCC					
N T E H H C I G G G G F F P Q G K P					
929	938	947	956	965	974
CGT CAG TGT GGG GAC TTC TCC GCC TTT GAC TGG GAT GGA TAT GGA ACT CAC GTT					
R Q C G D F S A F D W D G Y G T H V					

FIGURE 1C

983	992	1001	1010	1019	1028
AAG AGC AGC TGC AGT CGG GAG ATA ACG GAG GCG GGT GTA CTC TTG TTC TAT AGA					
K S S C S R E I T E A A V L L F Y R					
1037	1046	1055	1064	1073	1082
TGA GAC AGA GGT CTG CGG TGT CAG GGC GAG AAC CCA TCT TCC AAC CCC GGC TAT					
*					
1091	1100	1109	1118	1127	1136
TTG GAG ACG GAA AAA CTG GAA TTC TAA CAA GGA GAG GAG ACT AAA TCA CAT					

CAA TTC 3'

FIGURE 1D

1	M	L	S	M	L	R	T	M	T	R	L	C	F	L	L	F	F	S	V	A	2921920CD1	
1	M	-	-	-	-	-	-	N	Q	L	S	F	L	L	F	L	I	A	T	g8096221		
1	M	-	-	-	-	-	-	T	Q	L	G	F	L	L	F	I	M	V	A	g3357909		
21	T	S	G	C	S	A	A	A	S	S	L	E	M	L	S	R	E	F	E	2921920CD1		
14	T	R	G	W	S	T	D	E	A	N	T	Y	-	-	-	F	K	E	W	-	g8096221	
14	T	R	G	C	S	A	A	E	E	N	-	-	-	L	D	T	N	R	W	G	g3357909	
41	T	C	A	F	S	F	S	S	L	P	R	S	C	K	E	I	K	E	R	C	2921920CD1	
30	T	C	S	S	S	-	P	S	L	P	R	S	C	K	E	I	K	D	E	C	g8096221	
31	-	-	-	N	S	F	F	S	S	L	P	R	S	C	K	E	I	K	Q	E	H	g3357909
61	H	S	A	G	D	G	L	Y	F	F	L	R	T	K	N	G	V	V	Y	Q	T	2921920CD1
49	P	S	A	F	D	G	L	Y	F	F	L	R	T	E	N	G	V	I	Y	Q	T	g8096221
49	T	K	A	Q	D	G	L	Y	F	F	L	R	T	K	N	G	V	I	Y	Q	T	g3357909
81	F	C	D	M	T	S	G	G	G	G	W	T	L	V	A	S	V	H	E	N	2921920CD1	
69	F	C	D	M	T	S	G	G	G	G	W	T	L	V	A	S	V	H	E	N	g8096221	
69	F	C	D	M	T	T	A	G	G	G	W	T	L	V	A	S	V	H	E	N	g3357909	

FIGURE 2A

101	D	M	H	G	K	C	T	V	G	D	R	W	S	S	Q	Q	G	N	K	A	2921920CD1
89	D	M	R	G	K	C	T	V	G	D	R	W	S	S	Q	Q	G	S	K	A	g8096221
89	N	M	R	G	K	C	T	V	G	D	R	W	S	S	Q	Q	G	N	R	A	g3357909
121	D	Y	P	E	G	D	G	N	W	A	N	Y	N	T	F	G	S	A	E	A	2921920CD1
109	D	Y	P	E	G	D	G	N	W	A	N	Y	N	T	F	G	S	A	E	A	g8096221
109	D	Y	P	E	G	D	G	N	W	A	N	Y	N	T	F	G	S	A	E	A	g3357909
141	A	T	S	D	D	Y	K	N	P	G	Y	Y	D	I	Q	A	K	D	L	G	2921920CD1
129	A	T	S	D	D	Y	K	N	P	G	Y	Y	D	I	Q	A	K	D	L	G	g8096221
129	A	T	S	D	D	Y	K	N	P	G	Y	F	D	I	Q	A	E	N	L	G	g3357909
161	I	W	H	V	P	N	K	S	P	M	Q	H	W	R	N	S	A	L	L	R	2921920CD1
149	I	W	H	V	P	N	K	S	P	M	Q	H	W	R	N	S	S	L	L	R	g8096221
149	I	W	H	V	P	N	K	S	P	L	H	N	W	R	K	S	S	L	L	R	g3357909
181	Y	R	T	N	T	G	F	L	Q	R	L	G	H	N	L	F	G	I	Y	Q	2921920CD1
169	Y	R	T	D	T	G	F	L	Q	T	L	G	H	N	L	F	G	I	Y	Q	g8096221
169	Y	R	T	F	T	G	F	L	Q	H	L	G	H	N	L	F	G	L	Y	K	g3357909

FIGURE 2B

201	K	Y	P	V	K	Y	R	S	G	K	C	W	N	D	N	G	P	A	I	P	2921920CD1
189	K	Y	P	V	K	Y	G	E	G	K	C	W	T	D	N	G	P	V	I	P	g8096221
189	K	Y	P	V	K	Y	G	E	G	K	C	W	T	D	N	G	P	A	L	P	g3357909
221	V	Y	D	F	G	D	A	K	K	T	A	S	Y	Y	S	P	Y	G	Q	2921920CD1	
209	V	Y	D	F	G	D	A	Q	K	T	A	S	Y	Y	S	P	Y	G	Q	g8096221	
209	V	Y	D	F	G	D	A	R	K	T	A	S	Y	Y	S	P	S	G	Q	g3357909	
241	R	E	F	V	A	G	F	V	Q	F	R	V	F	N	N	E	R	A	A	N	2921920CD1
229	R	E	F	T	A	G	F	V	Q	F	R	V	F	N	N	E	R	A	A	N	g8096221
229	R	E	F	T	A	G	Y	V	Q	F	R	V	F	N	N	E	R	A	A	S	g3357909
261	A	L	C	A	G	I	K	V	T	G	C	N	T	E	H	H	C	I	G	2921920CD1	
249	A	L	C	A	G	M	R	V	T	G	C	N	T	E	H	H	C	I	G	g8096221	
249	A	L	C	A	G	V	R	V	T	G	C	N	T	E	H	H	C	I	G	g3357909	
281	G	G	F	F	P	Q	G	K	P	R	Q	C	G	D	F	S	A	F	D	W	2921920CD1
269	G	G	Y	F	P	E	A	S	P	Q	Q	C	G	D	F	S	G	F	D	W	g8096221
269	G	G	F	F	P	E	G	N	P	V	Q	C	G	D	F	A	S	F	D	W	g3357909

FIGURE 2C

T03210.20STZ460

301	D	G	Y	G	T	H	V	K	S	S	C	S	R	E	I	T	E	A	A	V	2921920CD1
289	S	G	Y	G	T	H	V	G	Y	S	S	S	R	E	I	T	E	A	A	V	g8096221
289	D	G	Y	G	T	H	N	G	Y	S	S	S	R	K	I	T	E	A	A	V	g3357909

321	L	L	F	Y	R	2921920CD1
309	L	L	F	Y	R	g8096221
309	L	L	F	Y	R	g3357909

FIGURE 2D